

Title (en)

Biocompatible polymeres for a medicinal preparation

Title (de)

biokompatible Polymere für eine medizinische Zubereitung

Title (fr)

Polymères biocompatibles pour une composition médicale

Publication

EP 2229947 A3 20110105 (FR)

Application

EP 10006666 A 20041028

Priority

- EP 04805335 A 20041028
- FR 0312605 A 20031028
- FR 0403550 A 20040405

Abstract (en)

[origin: WO2005041986A2] The invention relates to a biocompatible polymer having general formula (I) $AaXxYy$, wherein: A denotes a monomer; X denotes an $RCOOR'$ group; Y denotes an O or N-sulphonate group which is fixed to A and which has either formula $-ROS_3R'$ or $-RNS_3R'$ in which R denotes an optionally branched and/or unsaturated aliphatic hydrocarbon chain which can contain one or more aromatic rings and R' denotes a hydrogen atom or a cation; a denotes the number of monomers; x denotes the rate of substitution of the A monomers by the X groups; and y denotes the rate of substitution of the A monomers by the Y groups. More specifically, the invention relates to the use of said biocompatible polymers for the preparation of a pharmaceutical, dermatological or cosmetic composition or a medical device, which are intended to prevent, relieve and/or treat discomfort, distress, itches, irritations and/or pain and/or to protect tissues against same. In addition, in certain cases, the use of said biocompatible polymers for pain treatment can impact on the actual curing of certain diseases. Significant improvements and even cures have been observed in relation to chronic and painful diseases that are associated with alterations in the extracellular matrix regardless of the origin thereof.

IPC 8 full level

A61K 31/737 (2006.01); **A61K 31/795** (2006.01); **A61K 47/36** (2006.01); **A61K 47/42** (2006.01); **A61P 17/02** (2006.01); **A61P 29/00** (2006.01)

CPC (source: EP US)

A61K 8/73 (2013.01 - EP US); **A61K 8/731** (2013.01 - EP US); **A61K 8/85** (2013.01 - EP US); **A61K 31/737** (2013.01 - EP US); **A61K 31/795** (2013.01 - EP US); **A61P 1/00** (2017.12 - EP); **A61P 1/02** (2017.12 - EP); **A61P 1/04** (2017.12 - EP); **A61P 11/00** (2017.12 - EP); **A61P 11/02** (2017.12 - EP); **A61P 11/06** (2017.12 - EP); **A61P 13/00** (2017.12 - EP); **A61P 13/02** (2017.12 - EP); **A61P 15/00** (2017.12 - EP); **A61P 17/00** (2017.12 - EP); **A61P 17/02** (2017.12 - EP); **A61P 17/04** (2017.12 - EP); **A61P 17/06** (2017.12 - EP); **A61P 17/12** (2017.12 - EP); **A61P 19/02** (2017.12 - EP); **A61P 19/04** (2017.12 - EP); **A61P 21/00** (2017.12 - EP); **A61P 25/00** (2017.12 - EP); **A61P 25/04** (2017.12 - EP); **A61P 25/06** (2017.12 - EP); **A61P 27/02** (2017.12 - EP); **A61P 27/16** (2017.12 - EP); **A61P 29/00** (2017.12 - EP); **A61P 31/22** (2017.12 - EP); **A61P 41/00** (2017.12 - EP); **A61Q 19/00** (2013.01 - EP US); **C08B 3/00** (2013.01 - US); **C08B 37/0009** (2013.01 - US); **C08B 37/0021** (2013.01 - US); **C08G 63/06** (2013.01 - US); **A61Q 19/02** (2013.01 - EP US)

Citation (search report)

- [XD] FR 2781485 A1 20000128 - BARRITAU LT DENIS [FR]
- [A] EP 0093489 A2 19831109 - RICHTER GEDEON VEGYESZET [HU]
- [XDI] JEANBAT-MIMAUD VIVIANE ET AL: "Bioactive functionalized polymer of malic acid for bone repair and muscle regeneration", JOURNAL OF BIOMATERIALS SCIENCE POLYMER EDITION, vol. 11, no. 9, 2000, pages 979 - 991, XP008060107, ISSN: 0920-5063
- [A] ESCARTIN Q ET AL: "A new approach to treat tissue destruction in periodontitis with chemically modified dextran polymers.", THE FASEB JOURNAL : OFFICIAL PUBLICATION OF THE FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY. APR 2003, vol. 17, no. 6, April 2003 (2003-04-01), pages 644 - 651, XP008059847, ISSN: 1530-6860

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2005041986 A2 20050512; **WO 2005041986 A3 20060420**; AT E480245 T1 20100915; AU 2004285318 A1 20050512; AU 2004285318 B2 20091119; CA 2543530 A1 20050512; CA 2543530 C 20140204; CN 102885849 A 20130123; CN 102885849 B 20170922; DE 602004029068 D1 20101021; DK 2229947 T3 20151012; DK 2260853 T3 20160125; EA 010945 B1 20081230; EA 200600862 A1 20061027; EP 1677807 A2 20060712; EP 1677807 B1 20100908; EP 2229947 A2 20100922; EP 2229947 A3 20110105; EP 2229947 B1 20150701; EP 2260853 A2 20101215; EP 2260853 A3 20120530; EP 2260853 B1 20151021; ES 2552106 T3 20151125; ES 2558881 T3 20160209; IL 175235 A0 20080413; IL 175235 A 20110331; IL 210249 A0 20110331; IL 210249 A 20140731; JP 2007514649 A 20070607; JP 2012067127 A 20120405; JP 2014218503 A 20141120; JP 5026791 B2 20120919; JP 5646446 B2 20141224; PL 1677807 T3 20110531; PL 1677807 T4 20110531; PT 1677807 E 20101223; US 2014301972 A1 20141009

DOCDB simple family (application)

FR 2004002780 W 20041028; AT 04805335 T 20041028; AU 2004285318 A 20041028; CA 2543530 A 20041028; CN 201210370224 A 20041028; DE 602004029068 T 20041028; DK 10006666 T 20041028; DK 10184844 T 20041028; EA 200600862 A 20041028; EP 04805335 A 20041028; EP 10006666 A 20041028; EP 10184844 A 20041028; ES 10006666 T 20041028; ES 10184844 T 20041028; IL 17523506 A 20060426; IL 21024910 A 20101223; JP 2006537359 A 20041028; JP 2011286518 A 20111227; JP 2014129842 A 20140625; PL 04805335 T 20041028; PT 04805335 T 20041028; US 201414308574 A 20140618